ABSTRACT

A porous zeolite shaped body of a zeolite is characterized in that the porous zeolite shaped body is made of a completely crystallized zeolite or a zeolite still under crystallization and composed of tetrapropylammonium ion (TPA) and silica sol in a mixing ratio (TPA/SiO_2) of 0.015 to 0.08 by mole: a zeolite shaped body has an average particle diameter of 1.0 μm or larger, a bending strength of 1.5 MPa or higher, and a difference in pressure between a feed side and a permeation side of 1.0 atmospheric pressure or lower at 10 $ml/cm^2 \cdot min$ of helium gas permeation flux when a thickness of the porous zeolite shaped body is adjusted to be 1.8 mm: and a zeolite shaped body has 70% or more of the area of the parts (the sound parts) where respective particles are clearly observed by grain boundary fracture among particles composing the shaped body in the entire area of the fractured surface in microstructure observation of the fractured surface of the shaped body itself.